OMM 350DC



DC V-A METER

- 3,5-DIGIT programmable projection
- Range: ±1 A/±5 A ±20 V/±40 V/±100 V/±200 V
- Digital filters, Linearization
- Size of DIN 72 x 24 mm
- Power supply 10...30 VDC/24 VAC
- Option Comparators

OMM 350DC



The OMM 350 model series are small 3,5-digit panel programmable instruments designed for maximum usefulness and user comfort while maintaining its fair price.

Աղուհևերեկ

Type OMM 350DC is a multi-range DC-VA meter.

The instrument is based on a single-chip microcontroller with an A/D converter, which ensures good accuracy, stability and easy operation of the instrument.

OMM 350DC DC VOLTMETER AND AMMETER

OPERATION

The instrument is controlled by four buttons situated on the front panel. All programmable settings of the instrument may be performed in three adjusting modes:

LIGHT MENU is protected by optional number code and contains solely items necessary for instrument setting.

PROFI MENU is protected by optional number code and contains complete instrument setting.

USER MENU may contain arbitrary items from the programming menu (LIGHT/ PROFI), which determine the right (see, change). Access w/o password.

Standard equipment is the OM Link interface, which together with operation program enables modification and filing of all instrument settings as well as performing firmware updates (with OML cable).

All settings are stored in the EEPROM memory (settings hold even after the instrument is switched off).

OPTION

COMPARATORS are assigned to monitor two limit values with relay output. The limits have adjustable hysteresis within the full range of the display as well as selectable delay of the switch-on in the range of 0...99,9 s. Reaching the preset limits is signalled by LED and simultaneously by the switch-on of the relevant relay.

STANDARD FUNCTIONS

PROGRAMMABLE PROJECTION

Setting: manual, optional projection on the display may be set in menu for both limit values of the input signal, e.g. input 0...100 V > 0...250,0 Projection: -9999...9999

FUNCTIONS

Linearization: non-linear signals can be linearized by the means of a linearization table (up to 25 points)

Tare: designed to reset display upon non-zero input signal

DIGITAL FILTERS

Exponential average: from 2...100 measurements Rounding: setting the projection step for display

EXTERNAL CONTROL

Hold: display/instrument blocking Lock: control keys blocking Tare: designed to reset display upon non-zero input signal 11

Number of inputs		1			
DC	Range	fixed - by order			
		±1 A ±5 A	< 12 mV < 60 mV	Input 5 Input 5	
		±20 V ±40 V ±100 V ±200 V	> 2 ΜΩ > 2 ΜΩ > 10 ΜΩ > 10 ΜΩ	Input 4 Input 3 Input 1 Input 1	
External input		1 input, on contact			
		The following functions can be assigned: OFF input off LOC. control keys blocking HOD display stop TAR. tare activation			

PROJECTION
Display: -999999999999, single color 7-segment LED
Digit height: 9,1mm
Display color: red or green
Decimal point: adjustable - in menu
Brightness: adjustable in menu
INSTRUMENT ACCURACY
TC: 50 ppm/°C
Accuracy: ±0,2% of range + 1 digit (for projection -9991999)
Rate: 0,510 measurement/s
Overload capacity: 2x; 10x (t < 30 ms) - not for 200 V and 5 A
Linearization: linear interpolation in 25 points (only via OM Link)
Digital filters: exponential average, rounding
Functions: Tare
OM Link: company communication interface for operation, setting and update of instruments
Watch-dog: reset after 500 ms
Calibration: at 25°C and 40 % r.h.
COMPARATORS
Type: digital, menu adjustable, contact switch-on < 50 ms
Hysteresis mode: switching limit, hysteresis band (Lim and $\pm 1/2$ Hys.) and
time (±99,9 s) determining the switching delay
Output: 12x relay with bistable contact (48 VAC/30 VDC, 3 A);
1. $2x \text{ appart collector} (20 \text{ VDC} (100 \text{ mA}))$

Output: L...2X relay with bistable contact (48 VAC/30 VDC; 3 A); 1...2X open collector (30 VDC/100 mA) POWER SUPPLY

Range: 10...30 VDC/24 VAC, ±10 %, PF≥0,4, I_{STP}< 45 A/1 ms, isolated Consumption: < 2,1 W/2,2 VA

MECHANIC PROPERTIES

Material: Noryl GFN2 SE1, incombustible UL 94 V-I Dimensions: 72 x 24 x 106 mm (w x h x d) Panel cutout: 68 x 21,5 mm (w x h)

OPERATING CONDITIONS

Connection: connector terminal blocks, section < 1,5/2,5 mm² Stabilization period: within 5 minutes after switch-on Working temperature: -20°...60°C Storage temperature: -20°...85°C Protection: IP42 (front panel only) EL safety: EN 6/010-1, A2 Dielectric strength: 2,5 kVAC per 1 min test between supply and input 4 kVAC per 1 min test between input and relay output Insulation resistance: for pollution degree II, measuring cat. III Instrument power supply, input > 300 V (PI), 150 V (DI) EMC: EN 6/326-1 Seismic capacity: IEC 980: 1993, par. 6

CONNECTION

ORDER CODE							
OMM 350DC - 0							
Power supply	1030 VDC/24 VAC, isolated	0					
Comparators	no		0				
	1x relay (Form A)		1				
	2x relay (Form A)		2				
	1x open collector		3				
	2x open collector		4				
Display color	red			1			
	green			2			
Specification customized version, do not fill i					00		

6 7 8 9 10 11 12 13
EXT.1

PI - Primary insulation, DI - Double insulation

лh

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